



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

AUGUST 2018
VOLUME 70, ISSUE 12

INSIDE THIS ISSUE

MONTHLY PROGRAM	1
BANQUET	2
BOARDZ BUZZ	3
CALENDAR OF EVENTS	3
EDUCATION	4
PUBLIC SERVICE	5
LATTEPANDA SBC	5
LINCON WEB	6
HOUSES EDUCATION BUILT	7
THE OTHER FIELD DAY	8
RARA PICNIC	10
HF2018	12
JOTA 2018	12
HAMFESTS	12
FOR SALE	12
VE TEAM	13
RARA CALENDAR	14
NEWS AREA FROM CLUBS	15
AMATEUR'S CODE	17
RARA MARKETPLACE	18
RARA OFFICERS	19
AREA CLUB CONTACTS	20
HAMFEST FLYERS	END

THE FUTURE OF RARA

TIM GUYOT, KB1POP, RARA VICE PRESIDENT

Gary Skuse, KA1NJL will lead our meeting this month that is focused on the future of RARA, especially with respect to the board's efforts to set a direction and identify goals for the club for the next 5 to 10 years.

The board strives to achieve the goals of our club's mission statement:

- **Provide** value to the community
- **Promote** scientific education and knowledge of radio engineering and communication skills
- **Encourage** camaraderie

And we want to be sure that we are doing it in ways that the membership desires and that will grow our membership in the future.

Gary is going to start by covering what the board has been focused on for the last one to two years including re-invigorating our educational programs via licensing classes and the RARA Academy, purchasing an HF rig for the club and replacing the scholarship with an education grant that serves more and younger students with an underlying goal of interesting them in amateur radio while increasing RARA's visibility in the community.

Next Gary will discuss some ideas that have been brought to the board by the membership that are in the queue but have not yet been realized. These include year-long monthly operating events, a well equipped club station that can be accessed by all members and additional training and building opportunities that address the needs of our members. An example of this last idea can be seen in the beginner's soldering academy we recently offered. The BOD had been considering a kit building day but our members expressed an interest in learning basic soldering skills so we crafted the academy to meet that interest.

Lastly, and perhaps most importantly, he will solicit input from the membership on where the club should focus our efforts and whether there are any additional suggestions to improve the club. The BOD is always looking for ways to enhance the value you receive for your membership dues so this is your opportunity to share your own ideas for making the club more valuable to you, its membership. Please come ready with your ideas to help propel the club through another decade! We expect this to be a very interactive meeting.

RARA



RaRa Banquet

September 21, 2018

6:00 PM

Dinner at 7:00 PM

Burgundy Basin Inn

1361 Marsh Road

Pittsford, NY



Don't forget to buy your tickets!

Members: \$20 or 40 Membership points

Non-members: \$20

Make reservations no later than

September 19, 2018

NO tickets will be sold at the door.

Purchase Tickets On Line Only

BOARDZ BUZZ

BRIAN O'CONNOR, KA2CGB, RARA TREASURER

There are many ways to enjoy this hobby. I've been licensed since 1978, and enjoy a variety of ham radio activities including HF DX.

Over the past year I've participated in the Tour de Cure and Field Day, the RARA Winterfest and Summer Picnic as well as various ROC City Net gatherings. I regularly check into local VHF-FM, VHF-SSB, HF and 6m nets. At this point in the calendar, I am looking forward to the ROC City Net Hamfest later this month and to the NY QSO Party (NYQP) in October.

My home shack is relatively simple: an Icom IC-280H multi-mode transceiver for the 2m and 70cm bands, a Kenwood TS-570S for HF-6m with a Yaesu FL-2000 PA into an LDG remote tuner and balun feeding a fan dipole. Current plans are to add digital HF modes and N1MM logger. On long road trips I run APRS using a Yaesu FTM-400DR.

I am also 'caretaker' of the Club's transceivers (a Yaesu FT-450D and a recently donated TenTec Omni V), antennas and accessories. And most weekdays I work with Roy, W2IT, in refurbishing and selling used ham gear. But enough about me.

Please fill my inbox

What do you like to do as a ham? Rag-chewing, contesting, or chasing rare DX? Talking on repeaters? Smoke and solder? QRP or QRO? SSB or CW? Our hobby offers a broad range of activities and many areas for specialization.

More importantly, what would **you** like to do **next** in this hobby? Set up your first HF station? Try out a new operating mode? Restore an old rig? Upgrade your license?

Your club's Board of Directors wants to know how the Club can help you to achieve your Ham Radio goal(s). We need your input to ensure that new initiatives and innovations are focused on members' needs.

Here's where you -- the individual member -- comes in: Communicate with your Board. Let us know **your** specific interests so that we can take appropriate action. Topics for meeting presentations, for RARA Academy how-to or build-it sessions, and operating events are all fair game.

Communicate with your Board: While you can always 'button-hole' a Board member during a meeting, investing 5 or 15 minutes in an email describing your idea and addressed to one or more Board members will be even more meaningful.

Help Wanted

The Club is in need of assistance in setting up the QuickBooks financial accounting program.

We have a license for QuickBooks Pro, which is installed in a new, dedicated laptop. We need help in configuring the system, loading a chart of accounts, loading a snapshot of initial account values, and basic instruction on QuickBooks operating procedures.

If you (or someone you know) has the skills and time to assist us, please contact treasurer@rochesterham.org or call Brian on 585-721-2346.

CALENDAR OF EVENTS

WEDNESDAY AUGUST 1, 2018- RARA General Meeting
7:00 PM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

THURSDAY AUGUST 2, 2018- RARA Board of Directors
5:45 PM at Novaworks, 333 Metro Park, F-500

SATURDAY AUGUST 18, 2018—International Lighthouse
SUNDAY AUGUST 19, 2018 Lightship Weekend
11AM to 5PM Charlotte Lighthouse

WEDNESDAY SEPTEMBER 5, 2018- RARA Business and General Meeting
7:00 PM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

FRIDAY SEPTEMBER 21, 2018— BANQUET
Burgundy Basin Inn

WEDNESDAY NOVEMBER 7, 2018— RARA Auction

SATURDAY FEBRUARY 9, 2019—WINTERFEST
Stewart Lodge—Mendon Ponds Park

EDUCATION

Tim Brown, WB2PAY, Education Coordinator

2018 Fall License Classes:

The Technician and General classes will be held at RIT beginning Tuesday September 18th. The question pool for Technician has been updated and New License Manuals are on order. Those signing up for the Technician or General classes may purchase a License Manual for \$25. To register for the Technician or General classes and to obtain a text book, email education@rochesterham.org

Classes are FREE to RARA members and \$15 for non members.

There will not be an Extra class this fall. The next Extra class is planned for March 2019.

2018 FALL ACADEMY WORKSHOPS:

DMR AND D-STAR WORKSHOP:

On Saturday September 8th, the Digital Communications Association of Perinton, DCAP, will present a RARA Academy session on DMR, D-Star and other digital modes. Watch the Sept Rag for more details. Mike Moore, KC2NM will be the lead for this program.

Scott Theis and Tim Brown are working on the next set of Academy Workshops. If you have a topic that you think will interest the membership, drop an email to education@rochesterham.org

Academy Workshops are held at the BSA Headquarters, 2320 Brighton Henrietta Town Line Rd, 10am to noon. You may sign up for Academy Workshops by emailing education@rochesterham.org

All learning and training does not happen in a classroom. Join RARA at one of the Summer Operational opportunities:

FIELD DAY OPERATIONS

A great time was had by all at the Field Day Sites.

RDXA and XRX clubs both hosted Field day with Get On The Air (*GOTA) stations that afforded new hams with the opportunity to experience HF operations.

RARA PICNIC AND OPERATING EVENT Good Food along with antennas in the trees and rigs to operate made this event a pleasant Summer experience. KD2DO operated on several bands with his Icom IC-7300 and G5RV antenna. Paul's air cannon got the antenna up more than 40 feet. The club's Ten Tec Omni V and 40 meter long wire antenna performed well. Several contacts were made using the club call N2EH.

The EXTENSIVE renovations of Stewart Lodge permitted us to operate on a beautiful deck.



Hams serving Hams
We speak your language... QSL?

- * **FREE** home relocation and property search services
- * **FREE** valuation and financing consultations

- Estate Liquidation - Downsizing - or just a change of scenery...

*Whatever your real estate needs are, call:
Frank (WB2PYD) or Lisa (K2BGR)*

Lisa Schramm (K2BGR)
Licensed Real Estate Salesperson
LSchramm@KW.com
585.756.3185

Frank Schramm (WB2PYD)
Realtor
Licensed Real Estate Salesperson
Certified Financing Specialist
FSchramm@KW.com
585.512.8989

Keller Williams Realty Greater Rochester 2000 Winton Rd South Building 1-201 Rochester, NY 14618



Thanks to Tim Barrett, K9VB, for making the Summer Picnic a success.

International Lighthouse Lightship Weekend - ILLW

On August 18 & 19, RARA will be operating HF from the grounds of the Charlotte Lighthouse which is the oldest surviving lighthouse on Lake Ontario.

This is **NOT A CONTEST**, it is an enjoyable, casual operating event. The RARA Club rigs will be available to operate. Antennas will be erected on Friday the 17th at 3pm

For more information or to sign up to help, contact Dave Timmons, W2DST (W2DST@arrl.net) or Tim Brown, WB2PAY (tjbrown@rochester.rr.com).

Please take advantage of these RARA sponsored training and operating opportunities.

PUBLIC SERVICE

Mike Moore, KC2NM, Public Service Coordinator

The next RARA Public Service Event will be the Multiple Sclerosis Society ROC the Ride Event which will be held August 25 at the Genesee Valley Park. For more information on this event visit our own RARA website or [Bike MS: ROC the Ride](#). Phil, K2ELV is the RARA team captain for this event.

This event supports a very worthy cause. It starts out in Genesee Valley Park, heading south from there. A minimum of ten (10) ham operators are needed for



a half day cycling event consisting of three separate tour distances. We will provide communications for the event and specific tasks may include bike repair van communications, rider escort safety communications, staff communications,



and re-supply communications. Provide safety communications for participants by summoning EMT's, as necessary, via Net Control. Go to [ROC the Ride Sign-Up](#) to sign up.

Additionally, I received a request from Tom Sanders, KB2NCI for additional help with some [SIARC](#) Public Service Events. The SIARC and Drumlins clubs are

great partners with us in the public service arena. Please look at the [SIARC](#) site and offer any help that you can. Please note that the Wineglass Marathon is the same date as our Fairport Lift Bridge Regatta.

Remaining events in the 2018 public service calendar are listed in the following table. Visit https://rochesterham.org/public_service.htm for more information and to volunteer.

Bike MS: ROC the Ride	Genesee Valley Park - Rochester, NY	Saturday	August 25
Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	Sunday	September 30
Jamboree on the Air	BSA Camp Babcock-Hovey Ovid, NY	Friday - Saturday	October 19-20
Pumpkin Patrol	Overpasses of the New York State Thruway	Tuesday & Wednesday	October 30-31
Holiday Science & Technology Days	Rochester Museum & Science Center	Wednesday - Saturday	December 26 -29

LATTEPANDA SINGLE BOARD COMPUTER

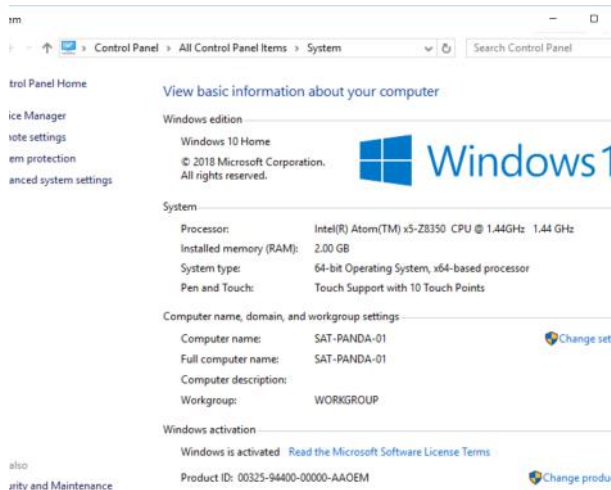
Scott Theis, W2LW

I recently purchased a single board computer that claimed to run Windows 10, the LattePanda. I was skeptical that a Single Board Computer (SBC) for under \$150 could have Windows 10 installed since a single license of Windows costs around \$100. As it turns out, LattePanda offers a range of boards with different specs and optional preloaded O/S. But the Windows one was interesting, so I thought I would give it a whirl for \$130 plus a case and power supply.

I ordered the LattePanda from Amazon, it arrived (via Prime) in two days. I plugged in the power supply, wireless keyboard/mouse, an HDMI cable and ethernet connection and booted her up. The unit ran through the setup and we were ready to go. I also purchased a cute wood case, by LattePanda, which was a bit of a puzzle to assemble.



After bootup and going to the system properties, I discovered that the Windows key did not seem to be activated. However, once I connected to the internet, it automatically fixed the key and I was able to perform updates.



I was most interested in how much free space I would have on C drive after performing all the updates. The result was about 7GB. On a later boot, the free space on C returned to 14GB. Apparently, there is a background task that runs to remove old Windows install garbage. The update process was also rather painful. The factory installed image is quite outdated and there were big 'creator' updates that required installation. The update process took many

hours. I just left it on the table to grind away.

For some cursory performance testing, I played some YouTube videos and performed other minor tests. Both 720 and 1080 videos play reasonably well with a few minor jerks and snaps. All the other tasks ran fine, keeping in mind this not a fast computer by today's standards.

For the unit 2G/32GB I purchased, the key specifications are:

- Intel Atom 1.8Ghz Quad Core Processor with 2GB DDR3L RAM
- 32GB Built in Storage Capacity (your C drive)
- Micro SD Interface (your D drive, such as a fast 64 or 128GB card)
- HDMI and MIPI-DSI Video Output (up to 4K)
- Integrated Arduino Co-processor: ATmega32u4 (Arduino Leonardo)
- Onboard touch panel overlay connector
- 100Mbps Ethernet (RJ-45), WiFi and Bluetooth
- Two USB 2.0 connectors and One USB 3.0 Connector
- GPIO Pins: 6 Intel Cherry Trail Processor, 20 Arduino Leonardo, 6 Plug and Play Gravity Sensor connectors
- Standard 1/8" Audio Out (audio is also supported on HDMI)

The board can be purchased without an OS for \$89 or with Windows 10 for \$119. They also offer more bundles and a couple of significantly faster boards, of course for more money. The unit does not come with a power supply, about \$10-15 will buy a 2.5A USB supply. The stock board does not come with any additional cooling other than the large flat heat sinks. Cooling options including some cases with fans and/or stick on heatsinks. So far, I have not needed any cooling other than the cooling provided by the case in the picture. I imagine if



you start pushing the processor, you will want some additional cooling. At 5V and 2A input, the board is capable of dissipating about 10W of heat.

This board offers a variety of options for interfacing with its built in Arduino and Gravity PnP interface. The Arduino runs independently and stays on when the main computer falls asleep. I do not know if the Arduino can wake up the main computer. Coupled with the touchscreen option, this board is an attractive option for a standalone controller or IoT type project.

Overall performance is ok. Explaining Computers performed some tests with Office Libre, GIMP and some other programs against a Raspberry Pi 3 and found it to be comparable. Of course, that is a \$35 option against \$129 option. There are other SBC options for Windows now including ZOTAC P-Series but these do not offer GPIO options.

SBCs are becoming more prevalent, powerful and cheap. LattePanda offers a range of boards and options including some with more storage and RAM. Check out Amazon, DigiKey, Mouser or www.lattepanda.com.

Lincon Web says "Click This"

CLUBS

[East Greenbush Amateur Radio Assoc](#)
[Wheaton Community Radio Amateurs](#)
[Bolingbrook Amateur Radio Society](#)
[Fox River Radio League](#)

MAGAZINES

[QST](#)
[QEX](#)
[NCJ](#)
[CQ](#)
[QRP Quarterly](#)
[RadCom](#)
[The Canadian Amateur](#)

SDR

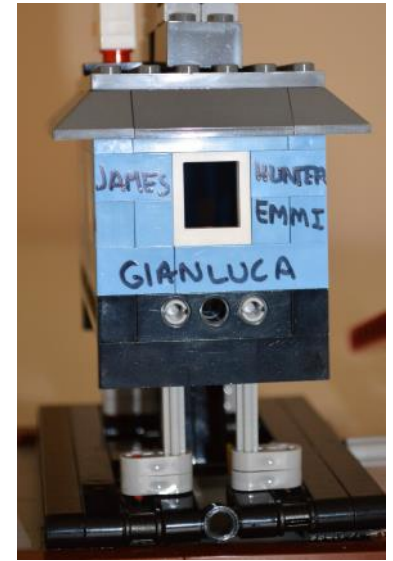
[I/Q Data for Dummies](#)



THE HOUSE THAT EDUCATION BUILT

Mike Moore, KC2NM

The children of the First Lego Robotics Team of St. Louis School constructed a model of a house with a radio shack, complete with crank up radio tower. The model is pictured below. They presented the model to us at the presentation ceremony for the 2018 RARA Technology Grant as a token of their appreciation for receiving the grant. The model is adorned with the RARA logo and bears the names of the team students, teacher, and school principal. As you can see in the pictures, there is a vertical antenna placed on the top of the house and there is a lever which causes the antenna, shack and all to move up and down. I believe that the Technology Grant this year was really well placed as shown by the ingenuity that is incorporated in this model! Perhaps the up and down motion that is built into the model could be an example of a stealth antenna system designed to work around some restrictive CCRs? Or, maybe it represents a high water protection mechanism for the entire shack at a QTH near the shore of Lake Ontario in 2016? It could be a way to protect the antenna for the severe winds in Rochester. I hope that you get an opportunity to see this gift at an upcoming RARA meeting.



THE “OTHER” FIELD DAY

Bob Karz, K2OID

When it comes to Field Day most of us think of the Rochester DX Association (RDXA). RDXA is the best of the best, finishing first out of 321 stations in last year's 3A class. We're the other guys.

2018 was the third year for the joint XRX and Monroe County Amateur Radio Emergency Services (ARES) Field Day and our most successful to date. Several RARA members as well other hams (who found us through the ARRL's Field Day Locator web page) also joined the effort. Like the RDXA, we were in the 3A class which includes clubs and groups with 3 simultaneous transmitters on the HF bands. Like most clubs, we also had a “free” (meaning it doesn't add to our transmitter total) VHF station and a separate “free” HF Get On The Air or “GOTA” station with its own call sign expressly for new or inactive hams and visitors (with a licensed ham as control operator, of course).

This year the Field Day weather forecast was miserable with over a 90% chance of rain. Thus we decided for the first time to begin set up Friday rather than Saturday morning. By the end of the day Friday we had several wire antennas strung, our triband Yagi up, and our large tent erected.

We were absolutely ready for the rain, so of course it didn't. When we met at the FD site at 10:00 Saturday morning, the field was bone dry, but unlike past years, we at least were ahead of schedule on our preparation, and for the first time we started on time at 2PM.

Our Field Day location was at the Webster Recreation Association on Chiyoda Drive in Webster. It's a great FD site with trees and opened space. In the spirit of Field Day it is in a very public place adjacent to the Webster “Summer Days” celebration occurring the same weekend which attracted large crowds passing by. Ring side seats for the fireworks show Saturday evening were a plus.

Field Day is all about checklists and we are fortunate to have volunteers we can count on to carry them out. You need a ham to manage the computer network and logging programs (check), a ham to get site permissions and insurance (check), a ham to transport the tribander and tower to the site (check), a ham to manage the vhf/uhf station (check), a ham to be the safety officer (check), a ham to take charge of the generators (check), a ham to run the GOTA station (check), etc., etc. The list seems endless for the FD chair, but after several years of FDs, it comes down to making a few phone calls.

Some clubs have a strategy for how they will attack Field Day including a detailed operating schedule showing who is operating which rig in which mode for every minute. Our strategy is.....well.....we don't really have a strategy. Rather we have a few priorities. First, the GOTA station gets access to the best band with the best antenna. We want to encourage new and less experienced hams to become more involved in our hobby. Second, everyone gets to operate regardless of their contesting skills. We encourage that those who want to do a lot

of operating to be available late Saturday evening. By dawn there are always operating positions opened.

There is a popular misconception that everyone who attends FD is there the whole time. Not true! Of the 30 folks who participate hardly anyone is there the entire time. In fact some of us come only to help during set up, and some come at 6:00 AM Sunday to take over for those of us who have been up all night while some drop by after graduations or other commitments.

There is also a misconception that Field Day participants eat most of the time. Actually we eat all the time. FD is junk food Nirvana. There is a bag of something or other opened all the time...pretzels, cookies, diet soda, you name it punctuated by occasional real meals for example the breakfast tacos prepared for everyone by Tim Brown, WB2PAY.

There is a misconception that we don't care about our score. That's untrue as well. We pay close attention to available bonus points, for example having a site visit by an elected official (100 points), copying the special FD bulletin (100 points), and making at least 5 contacts using “natural power” which we do using a solar cell charged battery (100 points) to name a few. In fact, we expect to earn 1300 bonus points this year, increasing our score by more than 30%. We also try to maximize our CW/digital contacts since they count double.

So how did this year's Field Day go? Great actually. Folks from the XRX and ARES clubs got to know each other better. We got to try out some excellent inverter generators courtesy of Monroe County. Jon Dickason, N2JAC conducted an excellent mini fox hunting session for both kids and adults. We increased our CW and digital QSOs significantly. We worked Chile and Argentina in addition to 992 other FD contacts. We bested last year's score by several hundred points (we project we'll will finish in the top 20% of the 3A class). Despite the weather forecast, it didn't actually rain until the contest was over 2PM Sunday.

Most importantly, we all had fun. If this sounds interesting to you, we hope you'll join us next June.



Fireworks Above our Triband Antenna



Visitors Isabella Rowe and her dad working on their fox hunting techniques



Tim Magee, WB2KAO Makes a CW Contact while Larry Lavery, WW2J Logs



Lee Morelli, WB2JOR Makes a Contact on 75 Phone



The ARES Emergency Trailer and the GOTA Station

RARA PICNIC JULY 2018





HF 2018

Tim Guyot, KB1POP

I owe an additional thank you to some volunteers that were not listed in last month's article, so here they are.

Talk-In:

Ralph Dutcher - KD2BDZ

Jon Dickason - N2JAC

Dave Crawford - K2DPC

Volunteer Examiners:

Frederick Shippey - WA2BQA

Joseph Kirchner - KC2MGH

William Gibson - KB2CHD

Lawrence Safford - AB2OY

Robert Horner Jr - KB2YEM

Donald Kiser - AC2EV

Thanks again to all volunteers from both the hamfest committee and the 570 attendees that got to enjoy another successful ham-fest.

JAMBOREE ON THE AIR 2018

Stephen Fell, K2SF

Jamboree On The Air, JOTA, is set for October 20, 2018 at Babcock Hovey located along the Eastern shore of Seneca Lake near Ovid, N.Y.

Scouts all over the world will be enjoying Ham Radio. There are over 1200 scouts registered to be at camp this weekend and this is a great time to demonstrate what You like best about ham radio.

Please join the group and have fun with the scouts.

Contact Stephen Fell

K2SRF@ROCHESTER.RR.COM

for further information.

ROC CITY NET HAMFEST



ROC CITY Hamfest flyer at the end of RAG

FOR SALE

MOTOROLA GP-300

UHF Portable includes case, charger,
ext mic \$70

DRAKE MN-75

1.8-30MHz 200 Watt Matching Network
Matches TR-7 Series \$80

KENWOOD AT-230

WARC BANDS AND 160 METERS
Matches TS-830 \$80

KENWOOD AT-250

AUTOMATIC ANTENNA TUNER
Matches TS-430 --patch cable included
WARC BANDS AND 160 METERS \$120

KENWOOD YK-88C

500HZ CW FILTER \$70

RADIOWAVZ EFH-10

10 METER END FED + MATCHING UNIT \$35

REASONABLE OFFERS CONSIDERED

Contact: Tim Brown, WB2Pay at

tjbrown@rochester.rr.com

VE TEAM

The next **ALWAYS FREE** testing session:

Saturday September 15th
Rochester Institute of Technology
Kate Gleason College of Engineering
Gleason School of Engineering
Room 3139, Bldg. 9
Use "J" parking lot

Registration at 9:45AM
Testing at 10:00AM

You do not have to preregister.

To avoid giving your SSN go to:

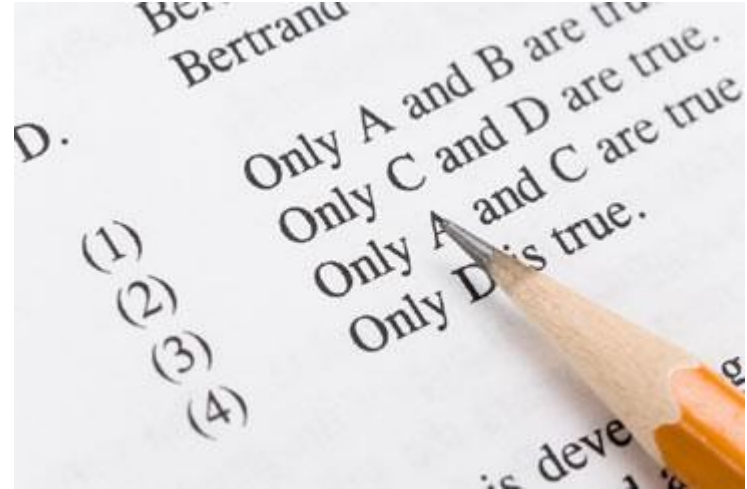
<http://wireless.fcc.gov/uls/index.htm?job=home>

Register and bring the resultant FRN.

For more info:

<https://www.laurelvec.com/?team=RARA>

Don Kiser - AC2EV
RARA Board member
VE Team Leader
585-613-1035



New licensees names are in **BOLD**

RARA CALENDAR

Tim Barrett, K9VB

August 2018						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 RaRa Monthly Mtg 7:00pm, BSA HQ, Brighton Henrietta TLR ROC City Net 8:00pm 3.826 MHz	2 RaRa BoD Meeting 5:45pm ARES Net 146.61 MHz 7pm NCCC Sprint NRAU 10M Activity Contest SKCC Sprint Europe QRP Foxhunt	3	4 AWA Museum Open 1pm - 5pm 10-10 Summer Contest, SSB European HF Championship ARRL 222 MHz and Up Contest NA QSO Party (CW)
5 10-10 Summer Contest, SSB ARRL 222 MHz and Up Contest NA QSO Party (CW) SARL HF Phone Contest	6 ARS Spartan Sprint	7 Phone Fray	8 ROC City Net 8:00pm 3.826 MHz	9 ARES Net 146.61 MHz 7pm NCCC Sprint QRP Foxhunt	10	11 AWA Museum Open 1pm - 5pm WAE DX Contest, CW SKCC Sprintathon MD QSO Party
12 WAE DX Contest, CW SKCC Sprintathon MD QSO Party 4 States QRP Sprint	13	14 Phone Fray	15 ROC City Net 8:00pm 3.826 MHz	16 ARES Net 146.61 MHz 7pm NCCC Sprint QRP Foxhunt	17	18 AWA Museum Open 1pm - 5pm SARTG WW RTTY Contest ARRL 10 GHz and Up Contest Russian District Award Contest NA QSO Party SSB CVA DX CW Contest
19 International Lighthouse Weekend RARA is at Charlotte Lighthouse SARTG WW RTTY Contest ARRL 10 GHz and Up Contest Russian District Award Contest NA QSO Party SSB CVA DX CW Contest SARL HF Digital Contest ARRL Rookie Roundup, RTTY	20	21 SIARC 7.30pm Phone Fray SKCC Sprint	22 ROC City Net 8:00pm 3.826 MHz	23 ARES Net 146.61 MHz 7pm NCCC Sprint QRP Foxhunt	24	25 AWA Museum Open 1pm - 5pm ROC City Net Hamfest, Log Cabin Restaruant Macedon NY HI KS OH QSO Parties ALARA Contest YO DX HF Contest W/VE Islands QSO Party
26 HI KS OH QSO Parties ALARA Contest YO DX HF Contest W/VE Islands QSO Party CVA DX Contest, SSB 50 MHZ Fall Sprint	27	28 Phone Fray	29 ROC City Net 8:00pm 3.826 MHz	30 ARES Net 146.61 MHz 7pm NCCC Sprint QRP Foxhunt	31 G3ZQS Straight Key Contest	

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

The next ARES Meeting will be held on: **Thursday, September 27, 2018, at 6:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountymcomm.org

Severe Weather Alerts:

Winter brings severe weather in the form of heavy snow and strong winds. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads)

NBEMS:

Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through June 2019.



ROCHESTER DX ASSOCIATION, RDXA

RDXA meets the 3rd Tuesday of every month (September through May) except for December, which is the Annual Holiday Banquet. Meetings are open to everyone and all are encouraged to attend. The next meeting is Tuesday September 18, 2018



Meetings are held at the Monroe County EOC 1190 Scottsville Rd. (second floor), Rochester, NY 14624 at 7:30PM.

ROCHESTER RADIO REPEATER ASSOCIATION

There will be no RRRA meeting held during July and August. RRRA meetings will be on summer hiatus till September 21, 2018 when our regularly scheduled meetings will resume. Membership meetings are held on the 3rd Friday of the month in the Pittsford Town Hall Basement starting at 7:30 PM.

RRRA will be providing ARRL VEC Amateur License testing at the Pittsford Town Hall Basement starting at 7:30 PM, August 17, 2018. **Effective September 7, 2017 the FCC requires applicants for new licenses, upgrades or call sign changes to answer if they have been convicted of a felony.** Check our web site, www.k2rra.org for details concerning RRRA's ARRL VE testing.

RRRA can't exist without members. If you are not currently a member and want to support RRRA, you can join at a monthly meeting or on our web site www.k2rra.org. RRRA also accepts donations to the club.

RRRA officers for 2018 - 2019 are , Bob O'Dell, N2BZX President, Bob Shewell, N2HJD Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B -Treasurer / Membership Chairman.

ROCHESTER VHF GROUP

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting www.rvhfg.org or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

XXR AMATEUR RADIO CLUB

No July and August meetings for the XXR Amateur Radio Club. Our next meeting will be on September 13, 2018. Stay up-to-date at <http://xarc.us>

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM.

The next meeting will be SIARCS 65th anniversary special event station event to be held on Saturday, August 4 in Victor, NY. It will serve as our August meeting and picnic. The event will operate from 10am to 7pm and we expect to have HF on 3 bands, plus some local VHF activity, 73's Steve Benton VP SIARC WB2VMR

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads New York. Chemung County ARES (CCARES) meets the first Tuesday of the month except February at Harris Hill. See www.ccares.info for details. CCARES covers the entire area in Chemung, Schuyler and Steuben counties and all are welcome.

On April 14, 2018 The club participated in our first Twin Tiers Makers Faire at the Arnot Mall in Horseheads. If you would like to see photos of what was going on that day a link is available on our website www.arast.info. I was told there was a link on the home page.

One correction from last month. I made an error in Steven's call sign; KC3DOW. My apologies for that.

June was field days at Cabin 5 on Harris Hill next to the National Soaring Museum. Steven KC3DOW should have some photos available on the website. Thanks to all who made the day a great one.

August will bring our next public service event; Strong Kids -Safe Kids at the Chemung County Fair Grounds. Amateurs man the entrance gates and provide communications to the organizers. You can find a link to their website at: www.elmirasksk.org It's going to be a good time.

Don't forget the hamfest at the Chemung County Fairgrounds in Horseheads Saturday September 29, 2018. Tickets are be available on our website (www.arast.info). Presale tickets will be available from board members later this month (July).

Communicators are needed to help out with the 2018 Wineglass Marathon Sunday September 30, 2018. If you can help out (even for a few hours) contact the Emergency Coordinator emergencycoordinator@stny.rr.com as soon as possible. We have to let the EMO's office know who will be participating.

Our website is still under construction. It is anticipated that construction will continue until after the Hamfest. Until that is finished check us out at www.arast.info.

Don't forget to check out our repeaters when you visit the area. The N3AQ 147.36(+) and the 146.70(-) are the principal 2 meter repeaters. Also Echolink is available using the call sign KA2BED-R. Check it out. A full list of available repeaters that can be heard in the twin tiers area surrounding Chemung County can be found at www.arst.info/arast_website/public/repeaters.php.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7pm. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9pm (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30pm on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: www.k2srv.org

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public [DSTAR hotspots](#) (using the dvprtr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a [DV-Mega-Raspberry Pi](#) combination. DCAP meets for breakfast at 7am nearly every Saturday morning at [Rikki's Family Restaurant](#) in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL of 110.9 Hz.

WESTSIDE AMATEUR RADIO CLUB

The mission of the Westside Amateur Radio Club is to provide emergency communications services to the community, to assist other civic organizations, to promote the technical craft of amateur radio through class training and testing, to mentor new members, and enhance fellowship among radio amateurs.

The Westside Amateur Radio Club meets on the first Tuesday of the month, 7PM, at the Chili Public Library. The Library is located at 3333 Chili Ave, Rochester, NY 14624.

The talk in repeater for all meetings is the WR2AHL Repeater 146.760MHz - 110.9. AllStar, Echolink, and web streaming connections are available. Website: <http://WestsideAmateurRadio.club>

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Interlock Rochester is open most every Tuesday night at 7pm. We're in the Hungerford Building (1115 East Main Street, Rochester NY), just north of Village Gate. Come to Door #7 (to the left of Comics Etc) and buzz Suite 200. Want to know more? Visit our website at <http://www.interlockroc.org/>, contact us at info@interlockroc.org, or find us in #interlock on Freenode IRC.

GENESEE VALLEY AMATEUR RADIO ASSOCIATION

2018 Meeting and Testing Schedule

Testing Schedule:

Saturday, September 15, 2018 1:00 PM - 2:00 PM

Saturday, October 20, 2018 1:00 PM - 2:00 PM

Meetings to follow after testing.

Location -

Brick Presbyterian Church

6 Church St.

Perry, NY 14530

Email n3dsp@lafireline.net for details.

ROCHESTER MAKERSPACE

The Rochester Makerspace is located at the rear of 850 St. Paul Street in almost 4,000 square feet of workspace. We are a volunteer-run 501c(3) nonprofit organization and our mission is to encourage learning, creativity and collaboration. We do that by providing low-cost and free access to sophisticated tools, offering a wide variety of classes, and by providing opportunities for "makers," artists and crafts persons of all kinds to meet and learn from each other.

Drop in to explore, learn and make at our weekly open house:

Every Thursday Night, 6 to 10 PM – Weekly Community Night & Open House

Every Saturday, 11 AM to 3 PM – Weekly Community & Open House

Park in the lot at Scrantom St. and Conkey Ave. and follow the signs.

Every Thursday Night, 7 to 9:30 PM – Microcontrollers & Robotics Meetup

A ham bench is set up with a 2 meter FM radio and a laptop with WebSDR. Waiting for nicer weather to install outside antennas for the Heathkit HW101 transceiver and Kenwood all mode 2 meter transceiver. Donations of ham equipment accepted.

For more information visit Rochestermakerspace.org

ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rocheasterastronomy.org/>

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

RARA MARKETPLACE

Your commercial ad could be here! The RARA RAG can help spread the word on your business at very reasonable rates.
Contact us for details at editor@rochesterham.org.

Michele A. Jamison, MD
Office Hours
by Appointment

Jamison Eye Care

www.JamisonEye.com

90 Erie Canal Drive | Rochester, NY 14626 | P: (585) 225-5883

ELECTRICAL WORK • TELEPHONE JACKS • CABLE TV
BURGLAR ALARM SYSTEMS • PADDLE FANS

MARTIN IPPOLITO
Master Electrician

Call 585-266-6337

P.O. Box 17438
Rochester, NY 14617
N2HEG

PROMOTE YOUR BUSINESS WITH RAG ADVERTISING

Ad size and cost—**per year**:

Business Card	\$140
Quarter Page	\$300
Half Page	\$600

Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 4,500.

Pass it forward
by donating your radio
or accessory to RARA.



Your item may be sold at future RARA events with proceeds to benefit RARA members.

You will get a tax-deductible receipt and the satisfaction that comes with doing good for others.

Call 585-210-8910 or email
Secretary@RochesterHam.org.

RARA is an IRS 501.c.3 non-profit

Consult with your tax advisor.

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Forest Shick, WA2MZG	(585) 721-1653	wa2mzg@arrl.net	Treasurer: Brian O'Connor, KA2CGB	(585) 721-2346	ka2cgb@arrl.net
Vice-President: Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com	Secretary: Anand Choudri, KC2KPG	(585) 377-0759	kc2kpg@arrl.net

DIRECTORS

Tim Barrett, K9VB	(585) 582-2108	tim.k9vb@gmail.com	Mark Pedersen, KC2UES	(585) 613-4052	mpeder21@gmail.com
Tim Brown, WB2PAY	(585) 750-2087	tjbrown@rochester.rr.com	Gary Skuse, KA1NJL	(585) 223-1511	ka1njl@arrl.net
Don Kiser, AC2EV	(585) 613-1035	dkiser100@gmail.com	Scott Theis, W2LW	(845) 774-9809	sa_theis@hotmail.com
Mike Moore, KC2NM	(585) 721-0011	mikemoore@ieee.org			

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Membership Secretary	Tim Barrett, K9VB	tim.k9vb@gmail.com
Club Station Trustee	Jim DiTucci, N2IXD	n2ixd@arrl.net	Public Service	Mike Moore, KC2NM	mikemoore@ieee.org
Education	Tim Brown, WB2PAY	tjbrown@rochester.rr.com	Raffle Administrators	Volunteers Needed	
Hamfest Co-Producers	Tim Guyot, KB1POP Mike Kolstee, KD2IZQ Mike Moore, KC2NM	timguyot@gmail.com mckolst@yahoo.com mikemoore@ieee.org	RARA RAG Editor	Forest Shick, WA2MZG	editor@rochesterham.org
VE Team	Don Kiser, AC2EV	dkiser100@gmail.com	Refreshments	Kelly Nichols, KD0FOP Robert Mac Donald, KD2OHI	
Media Communications	Tim Guyot, KB1POP	timguyot@gmail.com	Venture Crew	Stephen Fell, K2SRF Mark Pedersen, KC2UES	k2srf@rochester.rr.com mpeder21@gmail.com
Meeting Audio	Brad Allen, KB2CHY	ballen@frontiernet.net	Webmaster	Scott Theis, W2LW	webmaster@rochesterham.org

SEPTEMBER RAG DEADLINE

AUGUST 15, 2018



**RARA meets at 7PM on the
first **Wednesday** of each month. Join
us at:**

**Seneca Waterways Council, BSA Headquarters
2320 Brighton Henrietta Town Line Rd
Rochester, New York 14623**

Get Directions

Rochester Area Repeater Listing

THE RARA RAG

Published by
Rochester Amateur Radio Association, Inc.
P.O. Box 93333, Rochester, NY, 14692-8333
Hotline – (585) 210- 8910
Website – <http://www.rochesterham.org>

ROCHESTER AREA RADIO CLUB CONTACTS

Antique Wireless Association (AWA)
Lynn Bisha, W2BSN: lbisha@rochester.rr.com

Amateur Radio Association of the Southern Tier (ARAST)
Reiner Dieg, N2PEZ: rdieg@yahoo.com.

Astronomy Section Rochester Academy of Science
Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)
Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)
Gary Skuse, KA1NJL: ka1nil@arri.net

Drumlins Amateur Radio Club Ltd. (DARC)
Alan Cook, K2MPE: alancook948@gmail.com

Fisherman's Net Amateur Radio Club
Jim Sutton, N2OPS: jim@otrym.org

Genesee Valley Amateur Radio Assn.
Bill Boyd, N3DSP: N3DSP@lafireline.net

Monroe County ARES
Jim DiTucci, N2IXD: n2ixd@arri.net

Orleans County Amateur Radio Club (OCARC)
Terry Cook, K2EYS: k2eys@ocarc.us

Rochester Amateur Radio Association (RARA)
Forest Shick, WA2MZG: wa2mzg@arri.net

ROC City Net
Jim Merolillo, K2ZX: k2zx52@gmail.com

Rochester DX Association (RDXA)
Chris Shalvoy, K2CS: cshalvoy@att.net

Rochester Makerspace
Jason Peppers: floedaedalus@yahoo.com

Rochester Radio Repeater Association (RRRA)
Bob Shewell, N2HJD: bshewell@frontiernet.net

Rochester VHF Group (RVHFG)
John Stevens, WB2BYP: wb2byp@arri.net

Squaw Island Amateur Radio Club (SIARC)
Steve Benton, WB2VMR: sbenton2@rochester.rr.com

Westside Amateur Radio Club
Justin Grigg, KC2EQU: communications@westsideamateurradio.club

XXR Amateur Radio Club
Brian Donovan, K2AS: k2as@outlook.com

1ST ANNUAL
ROC CITY
Net
80 meter - 3.826 (or about) Wednesday - 7:30 pm Eastern
2 meter - Bristol 145.11 Repeater Sunday 7:30



HAMFEST

SATURDAY | AUGUST 25

AT THE LOG CABIN RESTAURANT

2445 W Walworth Road | Macedon, NY

SET UP: 6 AM | OPEN TO PUBLIC: 7 AM

- **Free admission!**
- **Hourly door prizes** provided by our sponsors
- **50/50 raffle**
- Food available for purchase inside the Log Cabin Restaurant and through vendors onsite
- 11 acres for radio gear
- Bring radio gear to swap or sell
- Find that equipment you've been looking for
- Bring your own tables for the swap meet/flea market

Talk In Channel: 145.11 Repeater (110.9PL)

SPONSORED BY

Rw AntennaStore



MFJ



Log Cabin



QUESTIONS: Joe Merolillo | k2zx52@gmail.com | 585.301.3650